

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/003854

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G03F7/20

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L G03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/154284 A1 (SATO HIROSHI) 24 October 2002 (2002-10-24) abstract figure 1 paragraph '0001! paragraph '0011! paragraph '0045!	1-28
X	US 6 285 442 B1 (SATO HIROSHI) 4 September 2001 (2001-09-04) abstract figures 1,2A column 1, line 8 - line 13 column 6, line 39 - line 47 column 3, line 65 - column 4, line 3 ----- -/--	1-28

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

4 July 2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 2001/046039 A1 (KUDO YUJI) 29 November 2001 (2001-11-29) abstract figures 1,4 paragraph '0001! paragraph '0029! - paragraph '0030! paragraph '0034! - paragraph '0035! paragraph '0045! paragraph '0049!</p>	1-17, 21-28
X	<p>----- EP 0 698 824 A (SONY CORPORATION) 28 February 1996 (1996-02-28)  abstract figures 11,23,24 page 2, line 7 - line 9 page 8, line 4 - line 29 page 11, line 37 - line 44 page 16, line 44 - page 17, line 21</p>	1-12, 15-18, 21-26,28
A	<p>----- US 6 438 199 B1 (SCHULTZ JOERG ET AL) 20 August 2002 (2002-08-20) cited in the application abstract figure 1 column 1, line 14 - line 16 column 12, line 15 - line 40</p>	1,26,28
A	<p>----- US 5 760 963 A (MORI ET AL) 2 June 1998 (1998-06-02) abstract figure 1 column 1, line 6 - line 10 column 2, line 1 - line 41 column 4, line 25 - line 28 column 4, line 38 - line 42 column 5, line 2 - line 21 -----</p>	1,26,28

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/003854

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002154284 A1	24-10-2002	JP 3101613 B2 JP 11312639 A	23-10-2000 09-11-1999
US 6285442 B1	04-09-2001	JP 11317348 A	16-11-1999
US 2001046039 A1	29-11-2001	JP 2000269114 A US 6281967 B1	29-09-2000 28-08-2001
EP 0698824 A	28-02-1996	DE 69519143 D1 DE 69519143 T2 EP 0698824 A2 JP 3458549 B2 JP 8181065 A SG 48693 A1 SG 67481 A1 US 6673526 B1	23-11-2000 05-04-2001 28-02-1996 20-10-2003 12-07-1996 18-05-1998 21-09-1999 06-01-2004
US 6438199 B1	20-08-2002	DE 19903807 A1 DE 29902108 U1 DE 60106966 D1 WO 0227405 A2 WO 0227406 A2 WO 0227400 A2 WO 0227401 A2 WO 0227402 A2 EP 1202291 A2 EP 1320853 A2 EP 1320854 A2 EP 1320855 A2 EP 1320856 A2 EP 1320857 A2 JP 2002184690 A JP 2004510340 T JP 2004510341 T JP 2004510342 T JP 2004510344 T JP 2004510345 T TW 594794 B TW 530164 B US 2003086524 A1 US 2003095622 A1 US 2004017885 A1 US 2004022353 A1 US 2004037388 A1 US 2004028175 A1 US 2004036037 A1 US 2004256575 A1 US 2004232354 A1 US 2005002090 A1 US 2005088760 A1 US 2002186811 A1 DE 59909289 D1 DE 59910752 D1 WO 9957732 A1 EP 1434240 A1 EP 0955641 A1 EP 1076906 A1 JP 2000003858 A	11-11-1999 30-12-1999 09-12-2004 04-04-2002 04-04-2002 04-04-2002 04-04-2002 04-04-2002 02-05-2002 25-06-2003 25-06-2003 25-06-2003 25-06-2003 25-06-2003 28-06-2002 02-04-2004 02-04-2004 02-04-2004 02-04-2004 02-04-2004 21-06-2004 01-05-2003 08-05-2003 22-05-2003 29-01-2004 05-02-2004 26-02-2004 12-02-2004 26-02-2004 23-12-2004 25-11-2004 06-01-2005 28-04-2005 12-12-2002 03-06-2004 11-11-2004 11-11-1999 30-06-2004 10-11-1999 21-02-2001 07-01-2000

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/003854

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6438199	B1	JP 2002514007 T	14-05-2002
		TW 446855 B	21-07-2001
		US 2003012333 A1	16-01-2003
		US 6198793 B1	06-03-2001
		US 2004037387 A1	26-02-2004
		US 6400794 B1	04-06-2002
		US 2004119961 A1	24-06-2004
		US 2004140440 A1	22-07-2004
US 5760963	A	JP 3608580 B2	12-01-2005
	02-06-1998	JP 8262367 A	11-10-1996